



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

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Fax 613 632-5246

647.3702

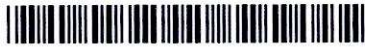
Job Sheet 207795



Part No: 647.3702

Job Qty: 1 pcs

Part Name: 412 Cable Cutter System, High



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 3/4/20

Job Tracking No:

Due Date: 3/27/20

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG 647.3700 REV.A IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM IPP REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM IPP REV:C AS PER REV NC3 15.03.18 JLM VERIFIED BY:DD IPP REV:D 18.01.19 AS PER DWG REV.A DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Packaging 1 - Pick Kit	1 pcs		3/27/20	0.00	0.00	Packaging 1 - 1		
							Packaging 1 - 2		
							Packaging 1 - 3		
							Packaging 1 - 4		
							Packaging 1 - 5		
							Packaging 1 - 6		
							Packaging 1 - 7		
							Packaging 1 - 8		
							Packaging 1 - 9		
							Packaging 1 - 10		
							Packaging 1 - 11		
							Packaging 1 - 12		
							Packaging 1 - 13		
							Packaging 1 - 14		
							Packaging 1 - 15		
							Packaging 1 - 16		
							Packaging 1 - 17		
							Packaging 1 - 18		
							Packaging 1 - 19		
							Packaging 1 - 20		
							Packaging 1 - 21		
							Packaging 1 - 22	DAS	
							Packaging 1 - 23	84	
							Packaging 1 - 24	9-89	
							Packaging 1 - 25		
							Packaging 1 - 26		
							Packaging 1 - 27		
							Packaging 1 - 28		
							Packaging 1 - 29		
							Packaging 1 - 30		

Dart Aerospace Ltd.
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CANADA
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Email: sales@dartaero.com
www.dartaerospace.com



Container No: S263506



Part: 647.3702

Job No: 207795

Serial No/Batch: S263506

Revision: A

Inspector:

Exp Date:

Instructions: FAA STC SR02289LA 17/03/07, I&S, STC LoA RI

Plex 3/4/20 12:34 PM Dart.lajeunesse.marie

120	QC 4	1 pcs	3/27/20	0.00 0.00	Packaging 1 - 31	
					Packaging 1 - 32	
					Packaging 1 - 33	
					Packaging 1 - 34	
					Packaging 1 - 35	
					Packaging 1 - 36	
					Packaging 1 - 37	
					QC 4 - 28	
					QC 4 - 58	
					QC 4 - 69	
					QC 4 - 9	
					QC 4 - 46	
					QC 4 - 68	DAS
					QC 4 - 72	72
					QC 4 - 74	9-89
130	Packaging 3-1 - Stock - B4B	1 pcs	3/27/20	0.00 0.00	QC 4 - 75	
					QC 4 - 78	
					QC 4 - 84	
					QC 4 - 80	
					QC 4 - 85	
					Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	DAS
					Packaging 3 - 25 - B4B	72
					Packaging 3 - 26 - B4B	9-89
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	DAS
					Packaging 3 - 37 - B4B	21
135	DC - 1 - B4B	1 pcs	3/27/20	0.00 0.00	DC - 1 - B4B	9-89
					DC - 2 - B4B	MAR 18 2020

140 QC 21 - FG

1 pcs

3/27/20

0.00 0.00

QC 21 - FG - 21

DAS

QC 21 - FG - 70

21

QC 21 - SA - 53

5-53

Part Op 110 - (Pick Kit)

MAR 18 2022

Descriptions: 120 - (QC4- 100% Inspect kits for completeness)

130 - Identify and pack for shipping as per PPP 647.3702

135 - (Document Control) Photocopy bluefile & type labels per PPP 647.3702

140 - (QC21- Final Inspection - Work Order Release)

015000

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
600.1012	Sealant PR1425B2 (#654 sem) -10-31-2020	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5258474
601.2045	RTV (LOCTITE 598) -02-28-2021	1 Ea (1 ea)	110-Packaging 1 - Pick Kit	5246985
601.3073	Connector p/n 082-4440	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5126622
601.3083	Adhesive Rubber Seal	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5255629
647.3801	412 Upper Cutter Assembly	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5244945
647.3804	204,205,212,214,412 Lower Cutter Assembly High	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5256348
647.3903	Deflector Assembly	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5244473
647.4010	Wiper Deflector RH	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5174992
647.4011	Wiper Deflector LH	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5153467
647.4110	Doubler	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5209258
647.4111	Doubler	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5237307
647.4112	Clip	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5237018
647.4113	Clip	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5152001
647.4114	Shim	2 pcs (2 ea)	110-Packaging 1 - Pick Kit	5234778
647.4115	Shim	2 pcs (2 ea)	110-Packaging 1 - Pick Kit	5237313
647.4116	Shim	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5058999
647.4210	Bracket LH	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5203301
647.4211	Bracket RH	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5203321
647.4310	LH Lower Strut	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5060777
647.4311	RH Lower Strut	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5107320
647.4312	LH Upper Strut	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5136890
647.4313	RH Upper Strut	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5131531
647.4410	Rail	1 pcs (1 ea)	110-Packaging 1 - Pick Kit	5153642
AN3-11A	Bolt	8 Ea (8 ea)	110-Packaging 1 - Pick Kit	5249339
AN3-4A	Bolt	3 Ea (3 ea)	110-Packaging 1 - Pick Kit	5053438
AN3C10A	Bolt	2 Ea (2 ea)	110-Packaging 1 - Pick Kit	5241209
CCR264SS-3-03	Cherry Rivet see item CCR264SS3-3	16 Ea (16 ea)	110-Packaging 1 - Pick Kit	5254787
CCR264SS3-04	Rivet	12 Ea (12 ea)	110-Packaging 1 - Pick Kit	5258464
CR3212-4-2	Cherry Rivet	12 Ea (12 ea)	110-Packaging 1 - Pick Kit	5228020
CR3212-4-3	Cherry Rivet	17 Ea (17 ea)	110-Packaging 1 - Pick Kit	5216020
CR3212-4-4	Cherry Rivet	4 Ea (4 ea)	110-Packaging 1 - Pick Kit	5163232
CR3213-4-2	Cherry Rivet	13 Ea (13 ea)	110-Packaging 1 - Pick Kit	5249574
CR3213-4-3	Rivet, Cherry	32 Ea (32 ea)	110-Packaging 1 - Pick Kit	5228824
CR3213-4-4	Rivet, Cherry	19 Ea (19 ea)	110-Packaging 1 - Pick Kit	5238020
CR3213-4-5	Rivet	42 Ea (42 ea)	110-Packaging 1 - Pick Kit	5233335
CR3213-4-8	Rivet	4 Ea (4 ea)	110-Packaging 1 - Pick Kit	5067267
MS21042L08	Nut	18 Ea (18 ea)	110-Packaging 1 - Pick Kit	5250462
MS21042L3	Nut	79 Ea (79 ea)	110-Packaging 1 - Pick Kit	5248081
MS21047-3	Nut Plate	4 Ea (4 ea)	110-Packaging 1 - Pick Kit	5216288
MS21047L06	Nut Plate	6 Ea (6 ea)	110-Packaging 1 - Pick Kit	5237844
MS21047L08	Nut Plate	6 Ea (6 ea)	110-Packaging 1 - Pick Kit	5228713
MS21071L3	Anchor Nut	4 pcs (4 ea)	110-Packaging 1 - Pick Kit	5157740
MS24694-C53	Screw	8 Ea (8 ea)	110-Packaging 1 - Pick Kit	5138070 15 2642
MS24694-S49	Screw	1 Ea (1 ea)	110-Packaging 1 - Pick Kit	51129702
MS27039-08-08	Screw	16 Ea (16 ea)	110-Packaging 1 - Pick Kit	5228734
MS27039-08-11	Screw	2 Ea (2 ea)	110-Packaging 1 - Pick Kit	5020601
MS27039-1-07	Screw	12 Ea (12 ea)	110-Packaging 1 - Pick Kit	5247646 250 574
MS27039-1-09	Screw	14 Ea (14 ea)	110-Packaging 1 - Pick Kit	5133788
MS27039-1-10	Screw	42 Ea (42 ea)	110-Packaging 1 - Pick Kit	5231296
NAS1149F0332P	Washer (AN960-10L)	157 Ea (157 ea)	110-Packaging 1 - Pick Kit	5237779
NAS1149FN832P	Washer (AN960-8)	34 Ea (34 ea)	110-Packaging 1 - Pick Kit	5248080

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-Packaging 1 - Pick Kit	600.1012	1	23	0
	601.2045	1	34	0
	601.3073	1	5	0
	601.3083	1	9	0
	647.3801	1	3	0
	647.3804	1	4	0
	647.3903	1	3	0
	647.4010	1	14	0
	647.4011	1	5	0
	647.4110	1	11	0
	647.4111	1	12	0
	647.4112	1	13	0
	647.4113	1	5	0
	647.4114	2	15	0
	647.4115	2	22	0
	647.4116	1	5	0
	647.4210	1	7	0
	647.4211	1	6	0
	647.4310	1	1	0
	647.4311	1	1	0
	647.4312	1	6	0
	647.4313	1	4	0
	647.4410	1	9	0
	AN3-11A	8	363	0
	AN3-4A	3	347	0
	AN3C10A	2	26	0
	CCR264SS-3-03	16	654	0
	CCR264SS3-04	12	219	0
	CR3212-4-2	12	81	0
	CR3212-4-3	17	111	0
	CR3212-4-4	4	3	0
	CR3213-4-2	13	393	0
	CR3213-4-3	32	504	0
	CR3213-4-4	19	1,194	0
	CR3213-4-5	42	370	0
	CR3213-4-8	4	121	0
	MS21042L08	18	2,016	0
	MS21042L3	79	2,894	0
	MS21047-3	4	540	0
	MS21047L06	6	57	0
	MS21047L08	6	25	0
	MS21071L3	4	139	0
	MS24694-C53	8	111	0
	MS24694-S49	1	182	0
	MS27039-08-08	16	198	0
	MS27039-08-11	2	711	0
	MS27039-1-07	12	153	0
	MS27039-1-09	14	220	0
	MS27039-1-10	42	413	0
	NAS1149F0332P	157	4,417	0
	NAS1149FN832P	34	4,543	0
Part Specifications				
Specifications could not be found.				

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Entered: _____ Date: _____



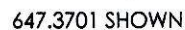
WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details: _____					

6 VENDOR: MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER



31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4-2
16	16	16	16	41	601.2207	NUT/PLATE RIVET	CCR26455-3-03
12	12	12	12	40	601.2491	NUT/PLATE RIVET	CCR26455-3-04
7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-4
17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3
11	11	12	12	37	601.1604	CHERRY RIVET	CR3212-4-2
				36		DELETED	
2	2	12	2	35	601.1874	BOLT	ANSI 10A
8	8	8	8	34	601.2826	BOLT	ANSI 11A
3	3	3	3	33	601.2823	BOLT	ANSI 4A
1	1	1		32	601.3073		082-4440
8	8	8	8	31	601.2419	SCREW	MS24694CS3
1	1	1	1	30	601.3070	SCREW	MS24694-549
2	2	2	2	29	601.2893	SCREW	MS27039-0811
14	14	14	14	28	601.3069	SCREW	MS27039-1-09
16	16	16	16	27	601.2263	SCREW	MS27039-0808
42	42	42	42	26	601.1365	SCREW	MS27039-1-10
12	12	12	12	25	601.2198	SCREW	MS27039-1-07
157	157	157	157	24	601.1607	WASHER	NAS1149FG332P
34	34	34	34	23	601.2764	WASHER	NAS1149FG332P
1	1	1	1	22	647.4313	RH UPPER STRUT	
1	1	1	1	21	647.4312	LH UPPER STRUT	
1	1	1	1	20	647.4310	LH LOWER STRUT	
1	1	1	1	19	647.4311	RH LOWER STRUT	
1	1			18	647.4212		
1	1	1	1	17	647.4211	BRACKET RH	
1	1	1	1	16	647.4210	BRACKET LH	
1	1	1	1	15	647.4116	SHIM	
2	2	12	2	14	647.4115	SHIM	
2	2	2	2	13	647.4114	SHIM	
1	1	1	1	12	647.4113	CLIP	
1	1	1	1	11	647.4112	CUP	
1	1	1	1	10	647.4111	DOUBLER	
1	1	1	1	9	647.4110	DOUBLER	
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH	
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH	
1	1	1	1	6	647.3903	DEFLECTOR ASSEMBLY	
1	1	1	1	5	647.4410	RAIL	
1	1	1		4	647.3804	LOWER CUTTER ASSY HIGH	
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW	
1	1			2	647.3802	212 UPPER CUTTER ASSY	
			1	1	647.3801	412 UPPER CUTTER ASSY	
					647.3704	204, 205, 212, 214 CABLE CUTTERS KIT HIGH	
					647.3703	204, 205, 212, 214 CABLE CUTTERS KIT LOW	
					647.3702	412 CABLE CUTTERS KIT HIGH	
					647.3701	412 CABLE CUTTERS KIT LOW	
3704	3703	3702	3701	FIND	PART #	DESCRIPTION	MAT'L
							SPEC.

NEXT ASSY (S)

PARTS LIST

ORIGINAL DATE (MO-DA-YR) 09-29-09	
DRAWN BY J. JACKSON	CHECKER D. BARKER
DRAWING APPROVAL P. BRAVO 09-29-09	
CONTRACT No.	

~~UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°~~

3030 ENTERPRISE CT., SUITE A
VISTA, CA. 92081-8347
(760) 724-5300

PHILIPAL INDUSTRIES, INC.
800 DART AIRSPACE

1000

412 CA

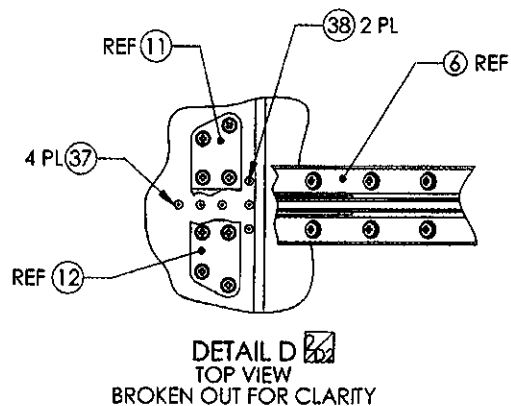
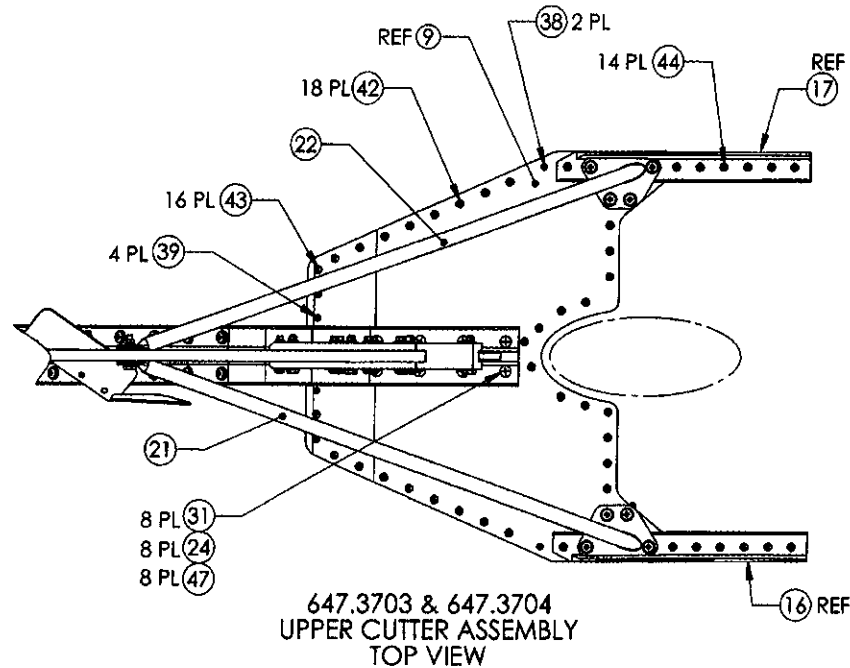
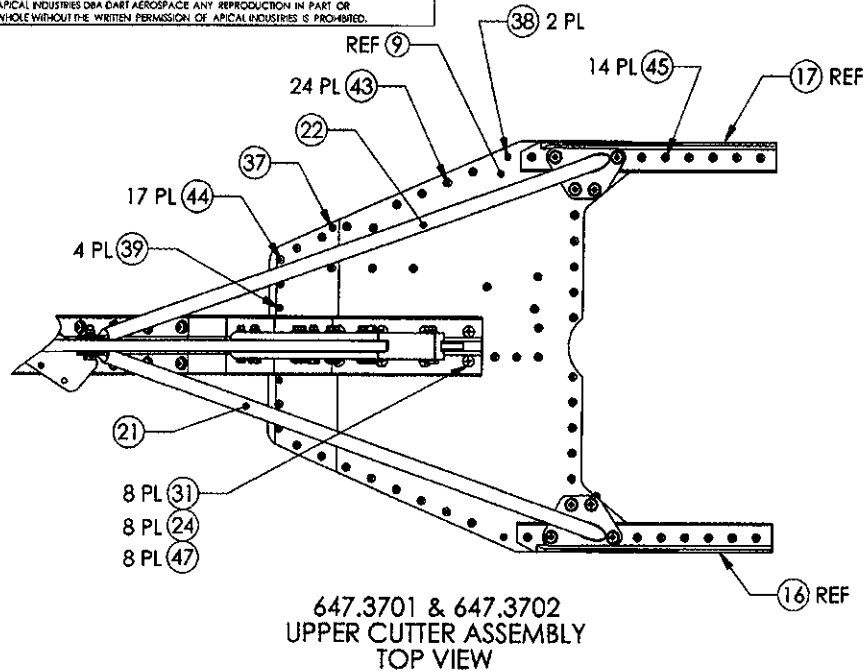
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1

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ORIGINAL DATE 10/20/01		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081-8347 (760) 724-5300	
DESIGNED BY J. JACKSON	CHECKED BY D. BARBER	DART AEROSPACE APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWING APPROVAL P. BAIVIO	CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS ARE TO BE 2 PLACE DECIMALS, UNLESS SPECIFICALLY STATED ANGLES ± 5°		REV. NO. 8	QWO. NO. 647.3700
SCALE NONE		REV. A	
		SHEET 3 OF 5	

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APICAL INDUSTRIES DBA DART AIRSPACE. ANY REPRODUCTION IN PART OR
WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

BROKEN OUT FOR CLARITY
RH SIDE ONLY

△ LH ⑧
OR
△ RH ⑦

DETAIL C 
LH SHOWN, RH OPPOSITE
2 PL

②⑧ 3 PL
②④ 6 PL
④⑦ 3 PL

⑤③ TRIM TO FIT

②⑥ 3 PL
②④ 6 PL
④⑦ 3 PL

②⑤ 6 PL
②④ 12 PL
④⑦ 6 PL

ORIGINAL DATE 10/20/01		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081-8347 (760)724-5300	
DRAWN BY J. JACKSON	CHECKED BY D. BARBER	APICAL INDUSTRIES, INC. DBA DART AIRSPACE	
DESIGNED & APPROVED BY P. SPAYO		412 CABLE CUTTERS KIT	
CONTRACT NO.		REV. B	REV. A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/16 0.0005 0.0005 1/2		CAGE CODE 07M26	DWG. NO. 647.3700
SCALE NONE		SHEET 5 OF 5	